BRUHAT BANGALORE MAHANAGARA PALIKE

PWD FORM - 45 (WORK SLIP)

Name of Work: Improvements and Asphalting to roads, drains and Construction of Culverts at Deshabandunagar, Puttanjinappa Layout & Krishna Temple area in ward No 09 in Vidyaranyapura sub Division.

Name of Agency: Sri M. Srinivas Murthy, Contractor, # 17, Jyothi Gas Godown, 6th Cross, Kurubarahalli, Bangalore - 86.

Estimated Cost: 45,00,000.00

Tender Amount : Rs. 43,30,749.44 Lakhs

Work Order No. BBMP/EE/BTP/WO/275/2015-16 Dated: 03.03.2016.

SL. No.	Description	Unit	Qty. as per Sanctioned Estimate			Qty. as per Tender			Actual executed Qty.	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total Executed Amount	Savings	Excess	Remarks
			Qty.	Rate	Amount	Qty.	Rate	Amount		Qty.	Rate	Amount	Qty.	Rate 2015-16+ T.P	Amount				
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*	*17*	*18*	*19*	*20*
1	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the	Cum	965.85	75.60	73018.26	965.85	65.00	62780.25	912.54	912.54	65.00	59315.00	0.00	0.00	0.00	59315.00	3465.25		
2	Removing B.S Slab of Drain and stacking etc complete as per specifications and directions of engineer in charge of the work	Sqm	1080.00	58.32	62985.60	1080.00	50.00	54000.00	1336.50	1336.50	50.00	66825.00	0.00	0.00	0.00	66825.00		12825.00	
3	Refixing stone slabs of drains and pointing in C.M (1:3) etc complete as per specifications and directions of engineer in charge of the work	Sqm	1080.00	75.60	81648.00	1080.00	65.60	70848.00	1336.50	1336.50	65.60	87674.00	0.00	0.00	0.00	87674.00		16826.00	
4	Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed,	Cum	120.17	4847.04	582468.80	120.17	4500.00	540765.00	104.66	104.66	4500.00	470988.00	0.00	0.00	0.00	470988.00	69777.00		
5	Providing and laying cement concrete using 20mm and down size granite jelly of **ready mixed concrete (RMC)for R.C.C works** laid in 15cms thick layers and well compacted vibrating, curing,	Cum	158.75	5847.12	928230.30	158.75	5500.00	873125.00	70.83	70.83	5500.00	389538.00	0.00	0.00	0.00	389538.00	483587.00		
6	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of	Sqm	1270.00	97.20	123444.00	1270.00	97.20	123444.00	561.40	561.40	97.20	54568.00	0.00	0.00	0.00	54568.00	68876.00		
7	Providing **groove cutting** for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator and HOM of machinery including cost of blade coolant etc	Rmt	127.00	124.20	15773.40	127.00	124.20	15773.40	62.90	62.90	124.20	7812.00	0.00	0.00	0.00	7812.00	7961.40		
8	Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at	Cum	12.96	4542.48	58870.54	12.96	4542.48	58870.54	11.02	11.02	4542.48	50040.00	0.00	0.00	0.00	50040.00	8830.54		

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			Qty.	Rate	Amount	Qty.	Rate	Amount		Qty.	Rate	Amount	Qty.	Rate 2015-16+ T.P	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses,	Sqm	320.38	292.68	93768.82	320.38	292.68	93768.82	306.77	306.77	292.68	89785.00	0.00	0.00	0.00	89785.00	3983.82		
10	Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal** coarse aggregates @	Cum	38.04	6065.28	230723.25	38.04	6065.33	230725.15	47.53	47.53	6065.33	288279.00	0.00	0.00	0.00	288279.00		57553.85	
11	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with	Tonne	3.04	78351.84	238189.59	3.04	80000.40	243201.22	3.80	3.80	80000.40	304187.00	0.00	0.00	0.00	304187.00		60985.78	
12	Scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff within a lead of 100 meters including cost of all labour charges etc complete as per	Sqm	2949.00	22.68	66883.32	2949.00	22.69	66912.81	3032.78	3032.78	22.69	68814.00	0.00	0.00	0.00	68814.00		1901.19	
13	Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant	Cum	500.55	1438.56	720071.21	500.55	1438.50	720041.18	614.78	614.78	1438.50	884361.00	0.00	0.00	0.00	884361.00		164319.83	
14	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60	Sqm	4015.00	31.32	125749.80	4015.00	31.00	124465.00	3875.30	3875.30	31.00	120134.00	0.00	0.00	0.00	120134.00	4331.00		
15	Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work	Cum	115.43	8475.84	978366.21	115.43	8500.00	981155.00	106.06	106.06	8500.00	901521.00	0.00	0.00	0.00	901521.00	79634.00		
16	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading	Cum	965.85	73.57	71057.58	965.85	73.38	70874.07	912.54	912.54	73.38	66962.00	0.00	0.00	0.00	66962.00	3912.07		
	Total															**3910803.00**		**314411.65**	
								EIRL											
17	KSRRB M200-24:- dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces no exceeding 0.02 Cum in	Cum							112.28				112.28	800.74	89907.00	89907.00		89907.00	
18	KSRB 15.1.3: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining,	Sqm							18.36				18.36	96.68	1775.00	1775.00		1775.00	
19	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite	Cum							3.37				3.37	5342.47	17983.00	17983.00		17983.00	

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			Qty.	Rate	Amount	Qty.	Rate	Amount		Qty.	Rate	Amount	Qty.	Rate 2015-16+ T.P	Amount				
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*	*17*	*18*	*19*	*20*
20	KSRRB 500-7: Providing and applying **tack coat** using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5kg per 10 sqm, heating	Sqm							1190.00				1190.00	11.56	13755.00	13755.00		13755.00	
21	KSRRB 500-11: Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base /	Cum							59.50				59.50	4968.37	295618.00	295618.00		295618.00	
	Sub Total				4451254.68											**419038.00**		**419038.00**	
	Third Party Inspection Charges @ 1%				44512.55														
	Miscelaneous and unforgen charges	LS			4233.00														
	Total				**4500000.00**			**4330749.44**				**3910803.00**				**4329841.00**	**734358.08**	**733449.65**	

0.02 Below

SUMMARY:

1. **Estimated Cost : Rs. 45.00 Lakhs**
2. **Tender Cost : Rs. 43.30 Lakhs**
3. **Work Slip Amount Rs. 3,14,411.65 = 7.25 % of the Tender Amount**
4. **EIRL Amount Rs. 4,19,038.00 = 9.67 % of the Tender Amount**
5. **During execution as per requirement and site condition, the total Qty to be executed costs Rs. 43.29 Lakhs which is 0.02% BELOW the Tender cost. The proposal may kindly be approved.**

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 16/8/16
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division, Bangalore - 92

"Work-Slip Approved"

Chief Engineer
Yelahanka Zone
Bruhath Bangalore Mahanagara
Bangalore 92
17.08.16